

EXHIBIT A

Fischer sequence

IVALPXGMLK

SEQ ID NO: 2 (single letter sequence)

YFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPTNASHIQSAVVC
GRRHGVRIRVRSGGHDYEGLSYRSLQPEEFVVDLSKMRVWVDGKARTAWVDSGAQLGELYAIHKASTV
LAFFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVIDVKLVDANGTLHDKKSMGDDHFWAVRGGGGESFG
IVVAWKVRLLPVPPTVTVEFKIPKKASEGAVDIINRWQVVAPQLPDDLIRVIAAQGPTATFEAMYLGTCTL
TPMSSSKFPELGMNASHCNEMSWIQSIPFVHLGHRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFPRVWEQ
IFSTWLLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNQYVNYWFAPGAGAAPLSWSKEIYNYMEP
YVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQRLAITKGKVDPTDYFRNEQSIPPLI
KKY

SIM+LALNVIEW analysis

37.5% identity in 8 residues overlap; Score: 22.0; Gap frequency: 0.0%

Fischer, 1 IVALPXGM
Phlp4(#2), 142 VLAFFPAGV
* * *

SEQ ID NO: 4 (single letter sequence)

YFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPTNASHIQSAVVC
GRRHGVRIRVRSGGHDYEGLSYRSLQPEEFVVDLSKMRVWVDGKARTAWVDSGAQLGELYAIHKASPV
LAFFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVIDVKLVDANGTLHDKKSMGDDHFWAVRGGGGESFG
IVVAWKVRLLPVPPTVTVEFKIPKKASEGAVDIINRWQVVAPQLPDDLIRVIAAQGPTATFEAMYLGTCTL
TPMSSSKFPELGMNASHCNEMSWIQSIPFVHLGHRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFKEVWEQ
IFSTWLLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNQYVNYWFAPGAGAAPLSWSKEIYNYMEP
YVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQRLAITKGKVDPTDYFRNEQSIPPLI
KKY

SIM+LALNVIEW analysis

37.5% identity in 8 residues overlap; Score: 22.0; Gap frequency: 0.0%

Fischer, 1 IVALPXGM
Phlp4(#4), 142 VLAFFPAGV
* * *

SEQ ID NO: 6 (single letter sequence)

YFPPPAAKEDFLGCLVKEIPPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPTNVSHIQSAVVC
GRRHVSIRIRVRSGGHDYEGLSYRSLQPETFAVVDLNKMRVWVDGKARTAWVDSGAQLGELYAIYKASPT
LAFFPAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVIDVKLVDANGKLHDKKSMGDDHFWAVRGGGGESFG
IVVAWQVKLLPVPPTVTIFKISKTVSEGAVDIINKWQVVAPQLPADLMIRIIAQGPATFEAMYLGTCTL
TPLMSSSKFPELGMNPSHCNEMSWIQSIPFVHLGHRDALEDDLLNRNNSFKPFAEYKSDYVYQPFPRTVWEQ
ILNTWLKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNQYVNYWFAPGAAAAAPLSWSKDIYNYMEP
YVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVGQKYFKGNFERLAITKGKVDPTDYFRNEQSIPPLI
KKY

SIM+LALNVIEW analysis

42.9% identity in 7 residues overlap; Score: 19.0; Gap frequency: 0.0%

Fischer, 2 VALPXGM
Phlp4(#6), 143 LAFFPAGV
* * *